Week 33 Bio Warmups

1. Write the mRNA sequence that would match with this DNA sequence: TAAGCTTAGGGACCT
2. How many codons are in the mRNA sequence?
3. How many amino acids would this mRNA sequence code for?

Match each description with the correct type of RNA.

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| 1. | carries amino acids to ribosome | a. | mRNA |
| 2. | gets instructions from DNA | b. | tRNA |
| 3. | travels from nucleus to ribosome |  |  |
| 4. | performs translation |  |  |
| 5. | made during transcription |  |  |
| 6. | contains codons |  |  |
| 7. | contains anticodons |  |  |

Match each mutation with the correct term.

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| 1. | RSTUVW becomes RSTUBC | a. | deletion |
| 2. | RSTUVW becomes RSVUTW | b. | translocation |
| 3. | RSTUVW becomes RSUVW | c. | inversion |
| 4. | RSTUVW becomes RSTUUVW | d. | duplication |

Widow’s peak is a dominant trait (W). Cross parents who are heterozygous with widow’s peak.

1. What is the probability that a single parent will give its child a dominant allele?
2. List the possible genotypes of the offspring from this cross.
3. What percentage will be homozygous recessive?
4. How can 2 parents with widow’s peak produce a child without widow’s peak?

Y = yellow seeds, y = green seeds

R = round seeds, r = wrinkled seeds

Describe the phenotype given each of the following genotypes.

1. YyRr
2. YYrr
3. YyRR
4. yyRr
5. yyrr